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1 August 1966

MEMORANDUM FOR: Deputy Director for Science and Technology

1. This is a pretty good summary article on a new frontier in solid state, and, if possible, I think you will find the entire article worthwhile reading for two reasons:

(a) ORD, OEL and others will, no doubt, be proposing schemes built around devices employing the Gunn effect, and

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(b) About a year ago in OEL, I opposed a [redacted] study contract for [redacted] to look into the basic theories of this effect which were not then understood. My primary reason for this was that [redacted] would only be a drop in the bucket in comparison to DOD money supporting the work, and, furthermore, I was not sure that [redacted] was the right bucket. Now, at about the time when the results of this contract would be available, we have this excellent unclassified article. This illustrates that we ought to conserve our resources to strongly push unique ideas and applications peculiar to our needs.

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2. If you are very short of time, I suggest you read only the summary paragraphs I have marked on the last page of the article.

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